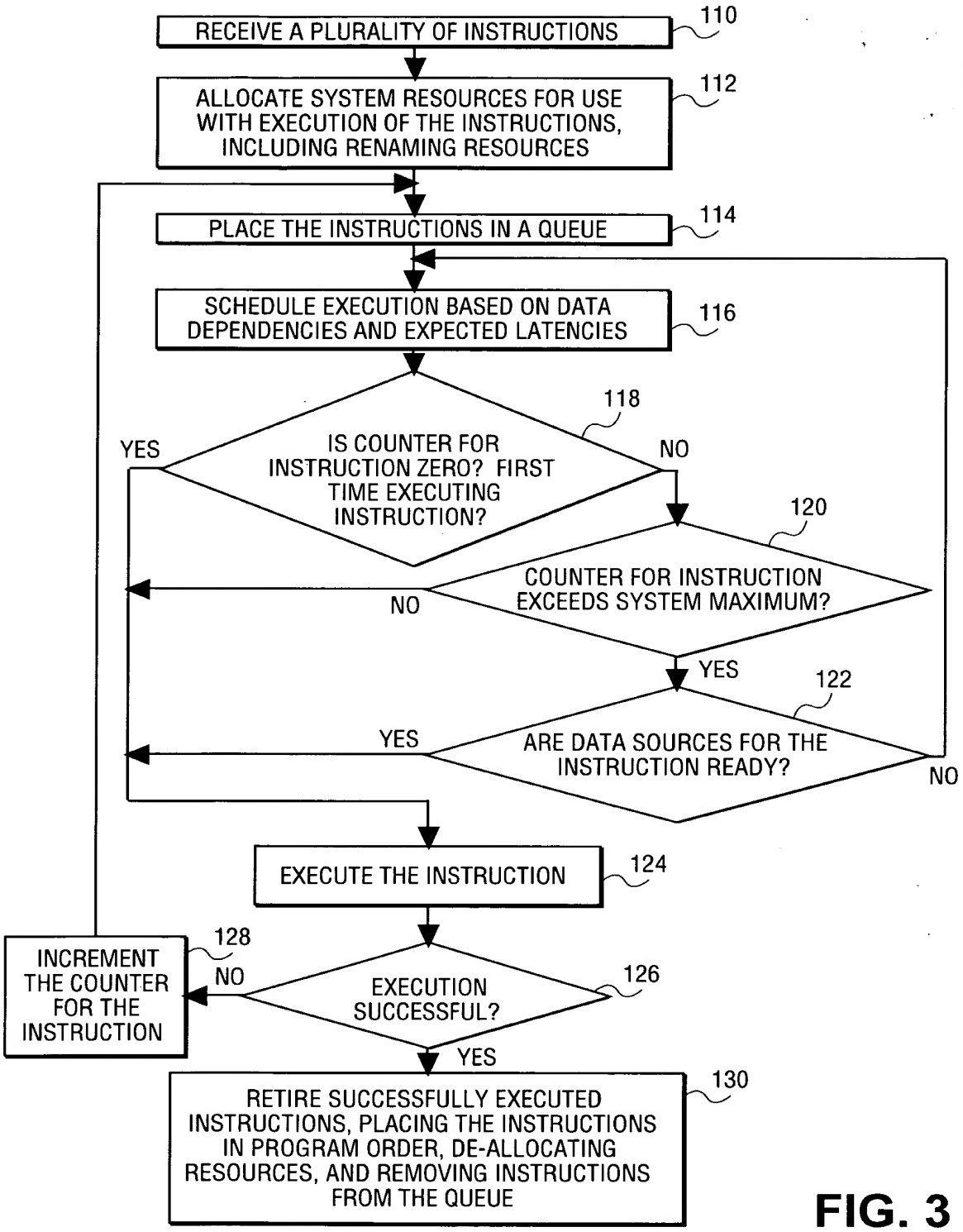
RECEIVE A PLURALITY OF INSTRUCTIONS
110
ALLOCATE SYSTEM RESOURCES FOR USE WITH EXECUTION OF THE INSTRUCTIONS, INCLUDING RENAMING RESOURCES
112
PLACE THE INSTRUCTIONS IN A QUEUE
114
SCHEDULE EXECUTION BASED ON DATA DEPENDENCIES AND EXPECTED LATENCIES
116
IS COUNTER FOR INSTRUCTION ZERO? FIRST TIME EXECUTING INSTRUCTION?
118
YES
NO
COUNTER FOR INSTRUCTION EXCEEDS SYSTEM MAXIMUM?
120
NO
YES
ARE DATA SOURCES FOR THE INSTRUCTION READY?
122
YES
NO
EXECUTE THE INSTRUCTION
124
INCREMENT THE COUNTER FOR THE INSTRUCTION
128
NO
EXECUTION SUCCESSFUL?
126
YES
RETIRE SUCCESSFULLY EXECUTED INSTRUCTIONS, PLACING THE INSTRUCTIONS IN PROGRAM ORDER, DE-ALLOCATING RESOURCES, AND REMOVING INSTRUCTIONS FROM THE QUEUE
130

FIG. 3